



# THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.  
Founded in 1931

## SOLAR RADIO TELESCOPE

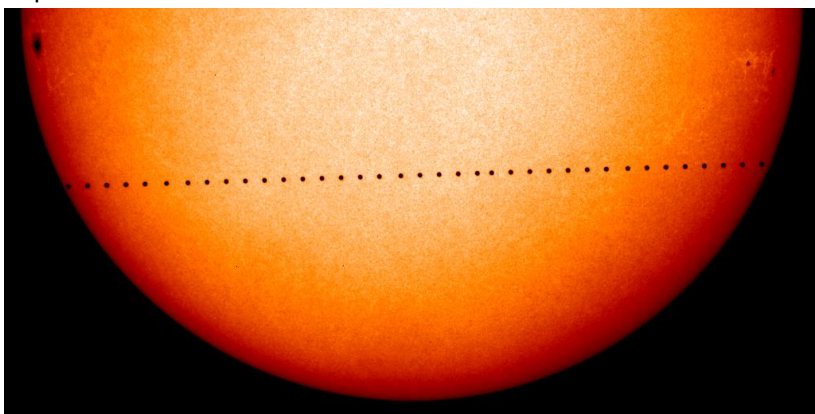
ANAND CHOUDRI, KC2KPG - RARA VICE PRESIDENT

Our monthly topic for June 2016 will be on Solar Radio Telescopes. The speaker is Martin Pepe, whose objective is to learn something new **every day**, and he subscribes to the idea of *'The more I learn, I then understand, there's more to know'*. Martin has given me an idea of what he is going to talk to us about and is noted below. Please join us on Friday June 3, 2016 at 7:00 pm.

Today the fields of Astronomy and Radio are tightly linked. From the time of Galileo (1609) people have peered into the heavens looking through glass. In 1897 Marconi sent his first 'wireless telegram' message. Who would have thought that a mere 35 years later these two disciplines would stumble across each other and create the most powerful tool yet with which to understand our very existence and place in the universe.

We take the Sun for granted. It gives us heat, light and, generates nice aurora (northern Lights). It helps grow our crops, and has done so for what seems like 'forever'. But does it periodically have a 'dark' side, one that in our increasingly sophisticated society we should be wary of?

Hear about why we should be interested in the detailed operation of our nearest star. We will report the status of developing a Radio Telescope to study the RF signature of Sunspots. Beside the Helio (Sun) science, we will share how this engineering project has become a significant 'hands – on' teaching tool for local Rochester college students. Actual Data will be shared from our working prototype, including some advanced signal 'image processing' techniques to minimize local interferers. We will be outlining future plans of further improvements.



Mercury transit across the sun



JUNE 2016  
VOLUME 68, ISSUE 10

### INSIDE THIS ISSUE

JUNE PROGRAM	1
PREZ SEZ	3
CALENDAR OF EVENTS	3
RARA SUMMER PICNIC	5
SHARE YOUR CAREER	6
PUBLIC SERVICE ANNOUNCEMENT	7
XRX SPRING FOX HUNT	7
XRX FIELD DAY 2016	8
XARC FOX HUNT	8
RARA HAMFEST	9
VE TEAM	12
RAGS OF THE PAST	13
RARA CALENDAR	14
NEWS AREA FROM CLUBS	15
HAMFESTS	17
AMATEUR'S CODE	18
WEBSITE INFORMATION	18
RARA MARKETPLACE	19
RARA OFFICERS	21
AREA CLUB CONTACTS	22

A bit about Marty – In his career Marty has worked on automatic landing systems for aircraft, medical trauma equipment, and on some of the very first color copiers and early laser printers for Xerox thru to the latest digital imaging science and electro-optics, involving lasers, electronics, and detectors. After retiring his latest projects include the development of a radio telescope to study RF emissions from sunspots, a portable micro radio telescope (iIBT) for educational outreach, and a new involvement in a High Altitude Balloon Project for Young Astronomers.

He's on the Board of Directors for the Astronomy Section of the Rochester Academy of Science, (ASRAS) and is both a past Program Director and Vice Chair. He has taught astronomy at the college level for over 12 years. He is the co-author of 'Project SCOPE', an astronomy education program for middle & high school teachers in WNY.

After the talk, Marty will have two Radio Jove receivers to give away to a pair of young Hams or students. The only rules are that you are expected to get them 'on the air', take data and report back to the club with a (future) presentation talk.

## Radio Jove

Martin J Pepe ([MjpAstro@gmail.com](mailto:MjpAstro@gmail.com))

Most people think they have to have a 50 foot dish in the backyard to do any Radio Astronomy. *It just ain't so!!* Besides getting on your wife's short list for casting a large dark shadow over her petunias, with the way things are these days, you might even get a visit or two from 'Uncle Sam' ;-).

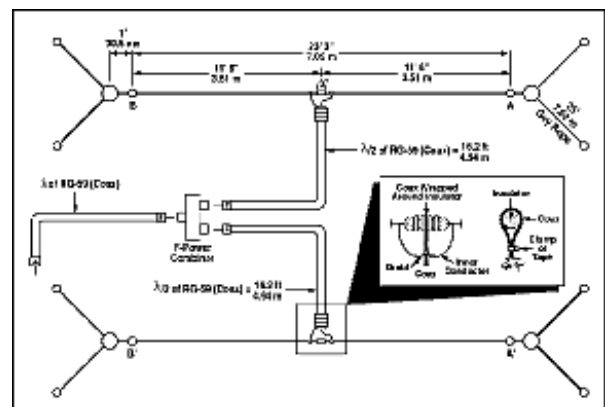
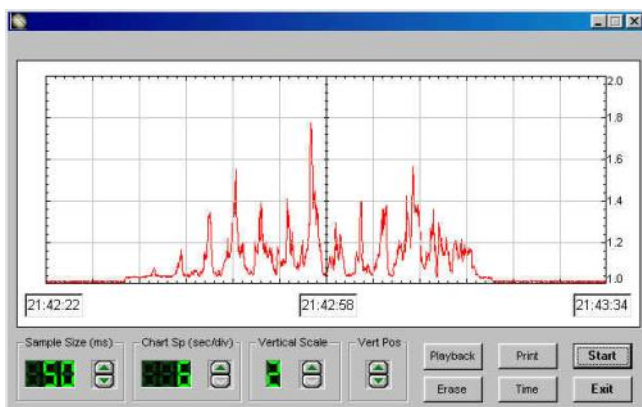
Everyone has seen colorful visual pictures from Hubble of deep space Galaxies. But many don't realize that deep sky objects have strong RF emissions, as well. Even some objects in our own Solar System give off radio waves in various frequency bands. The Sun and Jupiter are two of those objects in particular.

A stout RF emitter is the planet Jupiter (see NASA Radio Jove, *below*). The radio noise storms of interest can be heard from about 15 MHz up to a practical limit of about 38 MHz, the consensus seems to be that 18 MHz up to about 28 MHz is a good place to listen. Many 'hams' have inadvertently heard this, and assumed it was just background noise & hiss (*links, below*).

The very conditions that cause the ionosphere to get charged and yield a good DX bounce at times, are one's that 'shield' us from hearing these signals. When the DXing is good, the Jupiter signals are rather weak, since they can't penetrate the same strong ionospheric 'shell' that surrounds the Earth. Conversely, when the DXing is bad the Radio Jove signals can be good, they can actually complement regular Ham Radio operation.

The RF generator of these signals is an interaction of some of Jupiter's Moons (*typically IO*), and the planet's strong magnetic fields. These signals can be directional, and don't always point at the Earth.

A simple direct conversion receiver and external antenna (*right & lower*) for the above band (s) can be used to monitor these signals (*lower left*), and the audio output can even be sent to a laptop to form a strip chart recording. So try DXing something that's literally out of this world.



For further reading check out some of the following links;

Radio Jupiter Central - <http://www.radiosky.com/rjcentral.html>

NASA Radio Jove - <http://radiojove.gsfc.nasa.gov/library/newsletters/toc.htm>

SARA Radio Jupiter - <http://www.radio-astronomy.org/pdf/qex/radio-jove-proof.pdf>

Interested? email Martin Pepe @ [mjpastro@gmail.com](mailto:mjpastro@gmail.com).

# PREZ SEZ

WILL MULLANEY, KC2VSJ—RARA PRESIDENT

Hello RaRa Friends! Can you believe this is the last Prez Sez of Spring? Indeed, we are less than one month away from the official start of Summer, June 20<sup>th</sup>. This edition is packed with some exciting news, so settle in.

As I write this on Sunday the 29<sup>th</sup>, we've had just a day since our 89<sup>th</sup> Annual Rochester Hamfest. This was actually the first festival that I've been able to attend personally, and it was a lot of fun. The weather held out and it ended up being nice and sunny, though it was a bit warm. Throughout the morning we had a continual stream of vendors coming in to sell items at the flea market, and by 10:30, our general parking was basically full for attendees and we began to start looking at overflow parking. Our various teams will still be running their numbers and compiling their reports, but we counted over 1,000 people in attendance, with more than 350 members! Friends from XARC and AWA were in attendance with fox hunts and a spark-gap transmitter for people to check out. The Rochester VHF group had their world-class contesting rover onsite opened up for some tours, and some of the great folks from the ARRL including WNY Section Manager Laura Mueller and Atlantic Division Director Tom Abernathy showed up to explore the fest and meet the participants. Rich and his crew from RW Antenna Store in Lockport had tables of gear as far as the eye could see, and about 200 other commercial and non-commercial vendors rounded out the flea market. By the end of the day 34 people had taken one or more licensing exams. Almost 1,700 raffle tickets were issued, nearly \$3,000 in prizes were raffled off. Hundreds of cars were parked and admission tickets were counted, thousands of raffle tickets and dollars of cash were tracked, and some untold number of pounds of hots and hamburgers were consumed.

We on the RARA board have to thank all of you for your attendance and participation at the event; however, the true heroes are those who spent not just the day, but the prior several months working to plan and execute this great event. I was able to venture around throughout the day to various different teams and participate in their tasks, and every time I turned around I just saw more amazing effort and participation from our volunteers. The ticketing, parking, and grounds crews were probably the most obvious, and these ladies and gentlemen worked several hours each out in the hot sun, making sure you got to where you needed to go, all while having to be accountable for thousands of dollars in tickets and payments. Our raffle and membership teams, and the country store staff assisted attendees in participating in those functions and helping people figure out where to go. The VE team kept a continual stream of applicants testing with as little of a wait as possible, resulting in a lot of happy faces coming out from the testing room. Behind the scenes, accounting and services teams tracked tickets and money, collected data for raffle prize winners and sales, and performed a variety of other functions to insure we adhered to all regulations and laws, along with highly auditable and accurate accounting procedures. This is just a sample of the great amount of work done by our volunteer membership to produce this event. My very sincere thanks to Ev Tupis and his entire Hamfest team; you'll be hearing more about this in future meetings and newsletters as we wrap up this year's event's details and get an early start on the 2017 Hamfest. Hint: I think you'll be even more excited with some opportunities for the next one, so stay tuned!

Let's talk about meetings and upcoming events. This meeting (June 3<sup>rd</sup>) will be the last one before our summer break, as our July meeting will be replaced, as usual, with our Summer Picnic located at West Lodge in Mendon Ponds Park

## CALENDAR OF EVENTS

**JUNE 3<sup>RD</sup>** - RARA General Meeting

7:00 PM at BSA Headquarters, 2320 Brighton Henrietta Town Line Rd

**JUNE 9<sup>TH</sup>** - RARA Board of Directors

5:30 PM RIT Engineering Hall, Room 2110

(members only). It will also be our last Friday meeting! That's right, we're changing our meeting day! Based on feedback collected from the membership over the last two years, we will be moving our meetings to Wednesday nights starting in August of 2016. We will still be at the BSA headquarters, and we will still be meeting at 7:00pm. While I'm sure there will be a few people who may not be able to make the new date, I know there will be many who now can attend. This change will allow members to have back their Friday nights and have an easier time for three-day-weekend plans; no longer will members have to make the choice between skipping a meeting or skipping a short vacation. Our next meeting will be Wednesday, August 3<sup>rd</sup>, and our annual business meeting will be September 7<sup>th</sup>, when we will elect our next set of club officers and directors. Our club banquet is still set for Friday the 23<sup>rd</sup> at Burgundy Basin Inn, and our annual auction is scheduled for November 2<sup>nd</sup>.

In a final note, RARA has reviewed this year's applicants for our Memorial Scholarship and selected a recipient. The scholarship is awarded to any individual member who is a New York State resident, a licensed amateur radio operator, and who is pursuing a degree at any accredited post-secondary school. This year's recipient is two-time award winner Max Kelley, KC2SPY. Max is an electrical engineering student at Rochester Institute of Technology, entering the final year in his program this fall. A member of RARA, Max has been active in public service events with the club, along with being a very active member of the Thomas High School of Webster ham radio club during his time there. Max has been a part of a group who has formed a low-power FM station, 104.3 WAYO here in Rochester, and you may have seen his work on an autonomous, solar powered boat if you attended the Imagine RIT fest, or happened to be out in Irondequoit bay during testing. Our congratulations to Max and best of luck as he finished his classes at RIT.

Hope to see you all this Friday at the BSA for our June meeting!

Regards,  
Will Mullaney, KC2VSJ  
President, Rochester Amateur Radio Association

Scheduled Meeting Dates for 2016 - 2017:

August 3, 2016  
September 7, 2016  
October 5, 2016  
November 2, 2016  
December 7, 2016  
January 4, 2017  
February 1, 2017  
March 1, 2017  
April 5, 2017  
May 3, 2017  
June 7, 2017



## **RARA Summer Picnic**

**Saturday July 9<sup>th</sup>**

West Lodge in Mendon Ponds Park

No July meeting

The picnic is the meeting



# SHARE YOUR CAREER WITH THE COMMUNITY!

Eric Israel, Exploring Executive

You already share your passion for radio with the community, but what about your career? Think back to how you got started. Was there a cloud opening, ah-ha moment, or a mentor that guided you to where you are today? What if you had an opportunity to do that for today's youth?

Did you know that the Boy Scouts of America have a co-ed career education program for high school aged students called Exploring that does just that? Exploring received its start in the early 1960's here in Rochester with local fire departments as a way for them to educate youth about the fire service. Today the program has grown to include everything from Architecture to Zoology. Exploring's purpose is to provide hand's-on experiences to help young people mature and to prepare them to become responsible and caring adults. Explorers are ready to investigate the meaning of interdependence in their personal relationships and communities.

Exploring is based on a unique and dynamic relationship between youth and the organizations in their communities. Local community



organizations initiate an Explorer Post by matching their people and program resources to the interests of young people in the community. The result is a program of activities that helps youth pursue their special interests, grow, and develop. These programs generally take place in the evening, once or twice a month for the school year, at the workplace so the youth get a real sense of what your career is like.

Exploring Posts can specialize in a variety of career skills. Programs are based on five areas of emphasis: **career opportunities, life skills, citizenship, character education, and leadership experience.**

**Why should you participate?** Exploring is a great way to give back to

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our local youth while helping transition from school to the workforce. Your business/organization can help shape today's youth into tomorrow's workers and leaders in a safe and positive environment. The impact you will have on our community and the future will be immeasurable.

For more information check out the Exploring website at [www.swcexploring.org](http://www.swcexploring.org) or contact the Exploring Division at [joinexploring@senecawaterways.org](mailto:joinexploring@senecawaterways.org) or 585-244-4210.

## PUBLIC SERVICE ANNOUNCEMENT

Jim Stefano, W2COP, Public Service Coordinator

Public Service Event(s) for June, we still need more HAMS (any level) for:

### **ADA Tour de Cure, Saturday June 11th, Webster, NY**

Details <http://rochesterham.org/PublicService/TourdeCure.htm>

Sign-up [http://bit.ly/RARA\\_TdC\\_Volunteer\\_Sign-Up\\_Form](http://bit.ly/RARA_TdC_Volunteer_Sign-Up_Form)

Hope to see you all there!

## XRX SPRING FOX HUNT

The XRX Amateur Radio Club held its 2016 Spring Foxhunt on Saturday May 14. Bill Kurrasch K2WEK and Paul Kurrasch KC2GTO were the huntmasters. There were a total of nine participants among 5 teams. The hunt consisted of four transmitters hidden around the Webster area, all on the 2 meter band. We started at the Webster Recreation Center. Luckily the predicted rain held off and the hunt was mostly dry. Rich Hull K2RAH proved that no special equipment is required, finding all four Foxes first, in less than 2 hours going solo, with only 2 handhelds. No yagi, no attenuator, no GPS, etc. All teams successfully located all four foxes. The final rundown:

- Rich Hull K2RAH, 40 out of 40 Points
- (Tie) Brian Donovan K2AS, Jon Dickason N2JAC 33 Points each
- Bob Karz K2OID 28 points
- Chris Wainer and Harry Ramos W2HRY 23 Points
- Ned Asam W2NED, Gregory Asam, Vince Burolla W2VAB 23 Points (Late Start)

Thanks to Bill and Paul for a fun hunt, and looking forward to our next one in the fall.

### **Silent Key**

**Frederick J. Halik**  
**K2EU**  
April 27, 2016

### **Silent Key**

**Gloria A. Butterworth**  
**K2GAB**  
May 16, 2016

# XRX RADIO CLUB FIELD DAY JUNE 25-26, 2016

Bob Karz, K2OID

Interested in a (relatively) low key Field Day? The XRX Radio Club (formerly the Xerox ARC) is having its 30<sup>th</sup> annual Field Day at Nazareth College in Pittsford and you're invited. The site is adjacent to the Golisano Academic Center parking lot on the north side of the campus.

As most of us know, Field Day is an annual 24 hour contest or party (or both) depending on your perspective that is also an emergency preparedness exercise. It is always the 4<sup>th</sup> full weekend in June which this year is June 25-26. The object is to set up one or more stations at a "remote" location operating independent of the electric grid and make as many contacts as possible with other stations.

Last year more than 35,000 folks participated from more than 2,700 stations mostly in the US and Canada but also including a few DX operations. Locally the Rochester DX Association is a major player always at or near the top of their operating classification. Being competitive requires a good deal of organization and discipline. The XRX club is not quite as organized or competitive as the RDXA, but we do reasonably well, finishing in the top 20 to 30 percent of the 3A class. Everyone is welcomed to join our FD effort. Last year we had a joint operation with the ARES/RACES club which will likely be repeated again this year. However, you don't have to be a club member or even be licensed for that matter to participate. No experience is necessary. In fact, the contest rules encourage clubs to recruit new or inactive hams to participate with separate "Get on the Air" or GOTA stations. The XRX club will have a GOTA station if enough new/inactive hams join us.

Set up begins at 10:00 AM Saturday, and the 24 hour contest period starts at 2:00 PM. Teardown begins at 2:00 PM Sunday and is completed by 4:00 PM. You need not be at FD for the whole time to participate. In fact, some folks only come to help set up while others may arrive in the wee hours of the morning to help make contacts during that often slow period.

Please contact XRX Radio Club FD Chair Bob Karz, K2OID at [rkarz@rochester.rr.com](mailto:rkarz@rochester.rr.com) if you would like to join us.



# Rochester Hamfest 2016

Ev Tupis, W2EV, Hamfest Producer

It's difficult to imagine a better day than what we had for the 2016 edition of Rochester Amateur Radio Associations' Rochester Hamfest! Skies were blue, winds were calm and FUN FUN FUN filled the air!

The outdoor flea market had bargains galore. General parking was p-a-c-k-e-d. The Antique Wireless Association, VHF Group and Xerox ARC "tent and present" displays drew many curious and interested attendees.



WINNER: Jim Kennard -  
W2EKE - Fairport NY

Several flea market sellers chose the comfort of the indoor venue where sales were brisk with the enhanced volume of buyers brought inside to deposit and check on their raffle tickets.

This year we had 60 "Winners' Choice" raffle items. We pull the tickets, and the winners chose from items available when they show up to claim their prize. The top-shelf raffle prizes were "bucketed" (see the winners on this page). Those that really wanted a particular prize could deposit their tickets in that bucket and increase their chances of winning their most treasured prizes, and one attendee REALLY increased their odds and won TWO!



WINNER: Jim Samuels  
- Unlicensed

One way that RARA uses the proceeds from events like our hamfest is to offer FREE licensing courses throughout the year. Of course, this results in people coming to the hamfest to take VEC sponsored exams. The Laurel VE team was present and wildly active at Rochester Hamfest '16.

The younger crowd was clearly engaged, too! The "K-5 Exploratorium" exposed our youngest to hobby related activities. Those just a little older joined our volunteer ranks by arriving on Friday to setup the venue for Saturday as well as staffing our Member Services table and working in the "back office" entering crucial data in real time.



2 Winners: Jim Kennard,  
W2EKE - Fairport NY &  
Ron Panetta, WB2WGH -  
Liverpool

Our dedicated volunteers in Security, Outdoor Operations, Traffic/Parking, Ticketing, Indoor Operations, Country Store, Member Services, K-5 Exploratorium, VE team and Administration enjoyed a lounge where they could sit in air conditioned comfort to enjoy a snack and rehydrate a bit between assignments, too.

Business was brisk for our ARRL Awards and QSL Card checking service, too! Many folks left the 'fest with new wall paper on the way!

As an added bonus, WNY Section Manager Laura Mueller (N2LJM) and Atlantic Division Director Tom Abernathy (W3TOM) were present along with a large contingent of ARRL appointed officials and past elected officials giving attendees an excellent opportunity to connect with the people that represent them at regional and national levels.



WINNER: Tom Utesch - KG2U - Clinton NY

**DID YOU HAVE FUN at the 2016 Rochester Hamfest?** Be at the next RARA meeting and join in on the "buzz" to make 2017 even MORE FUN! We have ideas, but want to hear yours!

In conclusion, a call-out to the *Captains* (Brad-KB2CHY, Forest-WA2MZG, Bill-AA2YV, Peter-W2SKY, Ryan-W2XH) who lead the charge, and to the volunteers who made it happen.



WINNER: James Darcy -  
KD2JUJ - Ogdensburg NY



WINNER: David Prosser  
- N2IVB - Fairport NY



WINNER: William Brown -  
KB2TOY - West Falls NY



WINNER: Charles Dunn -  
AD2DG - Lockport NY



# 2016 Rochester Hamfest

## Indoor FUN



33 Applicants  
Processed!







2016 Fun!



RARA



Rochester HAMFEST



Flea Market



Photography by J. Van Griethuysen N2BNE

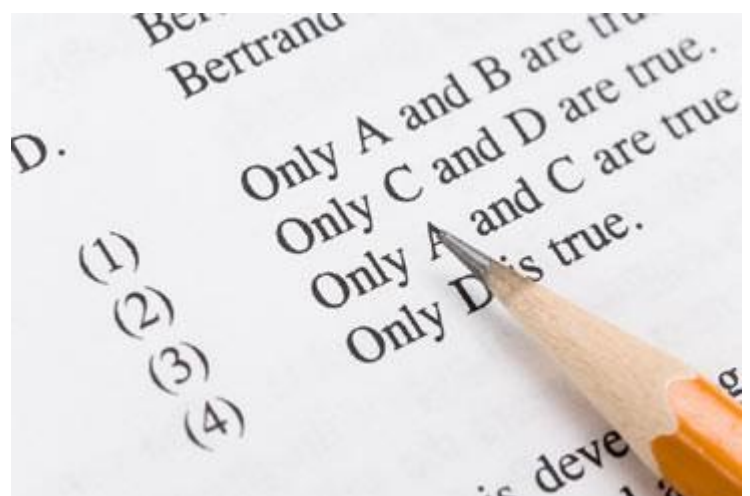
## VE TEAM

**May, 2016**

Robert Beltran	KC2TCJ	G	<b>Laurence Morey</b>	KD2LAM	T
<b>David KendigIII</b>	KD2LAK	T	Jonathan King	KS2JEK	G
<b>Andrew Walters</b>	KD2LAL	T			

New licensees names are in BOLD

Don Kiser - AC2EV  
RARA Board member  
VE Team Leader  
585-613-1035





# RARA RAGS OF THE PAST

Ed Gable, K2MP – RARA Club Historian

## 20 YEARS AGO, JUNE, 1996

I can't remember the last time this happened, if ever, but this RaRa season saw the President leaving mid-year and the duties taken over by the sitting Vice-President. As such we have Art DeBruycker, W2YGW, taking over the reins. In his first ever "Prez Sez" column Art says he will continue the year with those pursuits already in progress and time permitting perhaps some new endeavors. The Annual Club Picnic will move this year to the "idyllic Ellison Park" on June 29<sup>th</sup>. Mike Eckhout, writing for the Kodak Park ARC, told of the success of the Club's Amateur Radio Testing and that they have tallied giving over 100 exam elements to new and upgrading local Amateurs. The May Hamfest was a grand success and the main Amateur awards went to: Atlantic Division Ham of the Year to Gene Pressler, W3ZXV. The Grand Old Ham award to Dwight Hill, K2KWK, recognizing 20 years of public service and his "Hill Top Bulletin" service and the Technical Achievement award to Bob Bruninga, WB4APR, for his work in generating APRS Software. Keith Hibert, KE2DI, writing for the Brockport Amateur Radio Klub (BARK) introduced their 1<sup>st</sup> annual Wire Antler Contest that featured mandatory home made ten meter antennas. There are no records regarding a 2<sup>nd</sup> annual Wire Antler Contest. With regret it was reported Craig "Sonny" Shurtleff, W2RMR, was reported as a Silent Key. From the Want Ads you could buy a Butternut HF5B Butterfly Beam from Will Herzog, K2LB. Glenwood Sales at 594 Hague Street remained a long term advertiser.



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#### ANNUAL RaRa PICNIC

##### JUNE 29th, Noon to ?

In order to enjoy more of the beauty of the Monroe County Parks system, the Board of Directors has selected the site for this years picnic to be at idyllic Ellison Park. You can find Ellison Park by taking the Blossom Road exit from RT 590 North. The exit is just north of the old can 'o worms. Blossom Road also intersects with Winton Road, in case you prefer not to take the expressway. Take Blossom Road to the East, away from downtown. Ellison Park has several entrances, please use the second entrance on the right (as you travel Eastward) for easy access to the picnic site. Once in the park, follow the signs to the South Lodge.

Ellison Park provides a lot of shade trees, a flowing stream, and plenty of places to re-fill water guns. It is common to see wild animals if you go for a quiet walk away from the lodge. Bring your baseball gloves, bats, and balls and we'll get a ball game going too.

Nourishment and soft drinks are provided by RaRa.

Anyone NOT bringing at least one legal minor MAY be subject to being assigned garbage detail!

#### RaRa SUMMER MEETING

June 29th, 1996  
12:00 P.M. - till?  
Ellison Park  
Blossom Road  
SUMMER PICNIC

also provide training in the use of TV as a medium for public service.

George Lloyd has proposed to do the taping, and all things considered, if we can get a signal to the TV repeater on 111 Westfall, we can even transmit it live. Not sure how a live presentation of our meetings will impact the attendance rate. Would you rather watch meetings on TV be there in person? It is hard to socialize or interact with a TV camera.

I thank you in advance for your having elected me president and will do all I can to make it a satisfactory experience for all of us.

#### AMATEUR RADIO TESTING

by Michael J. Eeckhout

The Amateur Radio volunteer exam testing sessions that the Kodak Park Amateur Radio Club sponsors is very successful! Over the past year we have administered over 100 exam elements to both new and upgrading amateur radio operators!

As you know, we meet on the first Thursday of every month (except July, which is on the second Thursday due to the Holiday) after 5:30pm in Building 28.

#### SILENT KEY

Craig C. "Sonny" Shurtleff  
ex - W2RMR  
May 4, 1996

## 40 YEARS AGO, JUNE, 1976

VP and Program Chairman Jim Collinsworth, WB2EDT, wrote to tell of the great success of the just completed Hike for Hope public service event. Jim recognized Norm Schrader WB2GGM, Jim Stefano WA2YKR, Bill Zack WB2HDK and Julio Ahumada LU7BD, for their leadership efforts in making this happen. Twenty years earlier there was yet another RaRa Annual Picnic, this time at Powdermill Park, wrote Joan Vogt, WA2YTK. At the 1976 Hamfest ARRL President Harry Dannals, W2TUK, bestowed upon popular local Amateur Robert Lauzon, WB2NSD, the Atlantic Division Amateur of the year. Rich Koehn, WB2SNA, was the person to contact to sign up for the 1976 RaRa Campout, this year at the Crazyhorse Campground in North Java, NY. There was a long article penned by Joe Hood K2YAH and David Holtz WB2HTH, from RARRA, telling of the newly built 28/88 repeater and the efforts to get it housed at the new location on top of the Kodak Office Building. From the Want Ads you could buy a brand new 1976 DX Callbook from Len Gessin WA2ZNC. Adirondack Radio Supply, Inc., of Amsterdam, NY, featuring Yaesu equipment, remained a long term advertiser.

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#### RaRa Picnic - June 5th

by Joan K. Vogt, WA2YTK

RaRa's last social event of this season is the club's annual picnic, June 5th, at Wadham Lodge in Powdermill Park. All RaRa members and their immediate families are most welcome. Joan K. Vogt, WA2YTK, is chairperson of "fun and games." She will be assisted by Florence, WB2QXB; Onalee, xyl WA2ZNC, and Joyce, xyl WA2EKL. Plans are being made for activities for all age groups starting promptly at 3:00 p.m. Fun and games will include candy, balloons, paper airplanes, guessing games, relay races, and popular scavenger hunt, and for the older folks who are still young at heart, volley ball, badminton and bocce game. For those of you who enjoy relaxing a bit, you might want to bring along a comfy folding chair. Promptly, at 5:00 p.m., a picnic supper featuring hot, pickles, potato salad, baked beans, potato chips, soft drinks, and ice cream will be served. Once again, that's Saturday, June 5th - don't miss this great event.

#### Outstanding Communications Support Provided Hike for Hope

by Jim Collinsworth, SEC, WB2EDT

Again this year, on May 16, local amateur radio operators provided excellent communications support for the Hike for Hope. This year's effort sounded to me like the most efficient effort we have ever provided for this event.

Much credit goes to the young fellows who coordinated this year's communications. Among others, much of the coordination came from Norm Schrader, WB2GGM; Jim Stefano, WA2YKR; and Bill Zack, WB2HDK, with much encouragement coming from Julio Ahumada, LU7BD. This crew (who also arranged for most of last year's support) did all of the advance planning and rounded up many of you who provided very efficient communications for the hike needs.

Much of the success is due to the technique of assigning each key "Hike Official" with a companion amateur radio communicator. Over the years in our public service and emergency communications projects we appear to have learned this lesson well.

#### A.W.A. ELECTRONIC-COMMUNICATION MUSEUM

##### East Bloomfield, N.Y.

Hours: Sunday 2 to 5 p.m.  
Wednesday 7 to 9 p.m.

Groups by appointment. Telephone K2WW, W2QY or WJCE

The 1976 season offers several new displays for visitors:

1. An outstanding collection of television camera tubes showing TV development from the earliest days to present.
2. The Museum is celebrating the 100th Anniversary of the Telephone with an exhibit of rare telephones two of which are on loan from the Smithsonian Institution dating back to 1876.

In addition, visitors can see a new solid-state display and listen (?) to several new amateur spark transmitters. Admission is free.

#### CAMPOUT JULY 16-18

The first RaRa campout for the 1976 season will be held July 16, 17 and 18 at Crazyhorse Campground located at North Java, N.Y. Those that attended the last campout at Crazyhorse will remember the ride on the Arcade and Attica Railroad and the installation of our 50' tower (a couple of times).

The time to sign up for an enjoyable weekend is now - so contact Rich Koehn, WB2SNA, or Ed Holdsworth, WA2EKL, as soon as possible to join us for another fun weekend.

We will be planning another weekend at this time, so if you are unable to join the group this time, contact us so we can include your name for future campouts.

#### WB2NSD is Amateur of the Year

Robert H. Lauzon, WB2NSD, was named Amateur of the Year at the 1976 Rochester Hamfest banquet.

Bob has helped hundreds of people get an amateur license in the past few years. He has been our licensing course director continuously since 1971.

The presentation was made by ARRL President, Harry Dannals, W2TUK.



# RARA CALENDAR

Tim Barrett, K9VB

June 2016						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			<b>1</b> CWops Mini-CWT Test NRAU 10m Activity Contest	<b>2</b> NCCC Sprint NRAU 10m Activity Contest	<b>3</b> <b>RaRa Monthly Meeting</b> 7:00pm, BSA HQ, 2320 Brighton Henrietta TL Rd HA3NS Sprint	<b>4</b> PVRC Reunion 10-10 Int. PSK DigiFest Wake-Up QRP Sprint IARU Region 1 Field Day, CW RSGB National Field Day AL QSO Party
<b>5</b> PVRC Reunion DigiFest IARU Region 1 Field Day, CW RSGB National Field Day AL QSO Party	<b>6</b> SEANET Contest	<b>7</b> Phone Fray SEANET Contest	<b>8</b> <b>SIARC 7.30pm</b>	<b>9</b> <b>RaRa BoD Meeting</b> 5:30pm NCCC Sprint	<b>10</b>	<b>11</b> VK Shires Contest Asia-Pac Sprint SSB SKCC Sprintathon Portugal Day Contest ARRL June VHF Contest
<b>12</b> VK Shires Contest SKCC Sprintathon Portugal Day Contest ARRL June VHF Contest	<b>13</b>	<b>14</b> Phone Fray	<b>15</b>	<b>16</b> NCCC Sprint	<b>17</b>	<b>18</b> All Asia CW DX Contest Stew Perry Topband Challenge Ukrainian RTTY Contest WV QSO Party
<b>19</b> All Asia CW DX Contest SMIRK Contest Stew Perry Topband Challenge Ukrainian RTTY Contest WV QSO Party	<b>20</b>	<b>21</b> <b>RDXA 7.30pm</b> Phone Fray	<b>22</b>	<b>23</b> NCCC Sprint	<b>24</b>	<b>25</b> Ukrainian DX DIGI Contest King of Spain Contest, SSB <b>ARRL Field Day</b>
<b>26</b> Ukrainian DX DIGI Contest King of Spain Contest, SSB <b>ARRL Field Day</b>	<b>27</b>	<b>28</b> Phone Fray	<b>29</b>	<b>30</b> NCCC Sprint		

Print this calendar and leave it by your radio.

# NEWS FROM AREA CLUBS

## MONROE COUNTY ARES / RACES NEWS

The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month. Anyone interested, members and non-members, are welcome to attend.

The next ARES Meeting will be held on: **Thursday, June 23, 2016, at 7:00 PM.**

Meetings are held at the **Greater Rochester Chapter of the American Red Cross HQ, 50 Prince Street, Rochester, NY 14607.** (Located behind the Rochester Auditorium Theatre, 885 Main St. E.)



**ARES NET:** Monroe County ARES/RACES meets on the air every Thursday of the month at 8:00 pm, on the 146.61 MHz (-) 110.9 Hz PL repeater. The only exception to that are nights when we hold our regular meeting, generally on the 4th Thursday of the month.

**WEB:** [www.monroecountyemcomm.org](http://www.monroecountyemcomm.org)

### Severe Weather Alerts:

Winter brings severe weather in the form of heavy snow and strong winds. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads)

**NBEMS:** Want to learn about Narrow Band Emergency Messaging System (NBEMS)? It's the latest and easiest way to "Go Digital!" Bring your laptop computer and 2-M handheld transceiver. We will conduct an NBEMS clinic after every meeting through June 2016.

## ROCHESTER RADIO REPEATER ASSOCIATION, RRRRA

The Rochester Radio Repeater Association, RRRRA invites you to attend it's June 17th 2016 meeting. Meetings are held on the 3rd Friday of the month in the Pittsford Town Hall basement starting at 7:30 pm.

RRRA also accepts donations to the club. If you are not currently a member and want to support RRRRA, you can join at our monthly meeting or on our web site [www.k2rra.org](http://www.k2rra.org)

I hope to see everybody there on the 15th. Bob O'Dell, N2BZX, Vice President

## ROCHESTER VHF GROUP

The Rochester VHF Group holds monthly meetings on the second Friday of the month between September and June. Meetings begin at 7:30 PM and are held at the Spencerport Wesleyan Church, 2653 Nichols St. (NY Route 31) in Spencerport. Visit our website [www.rvhfg.org](http://www.rvhfg.org) for details.

The Rochester VHF Group sponsors an informal On-Air Net every Monday at 2100 local time on 144.260 MHz USB and a 6 Meter Net every Thursday at 2100 local on 50.200 MHz USB.

More club information can be found by visiting [www.rvhfg.org](http://www.rvhfg.org) or just calling in any Monday or Thursday night. All are welcome to check in to these nets.

## ROCHESTER DX ASSOCIATION, RDXA

It's no surprise that June means **Field Day** for RDXA.

**Webster Park**, due south of the Campgrounds at 999 Lake Road, will again be the RDXA operating site. **W2RDX** will field 3 main HF stations, the **K2TER** VHF super-Rover, and an **open-to-all** "GOTA" HF station. *The Get On The Air* station will feature a Yaesu FT-1000 Mark V with a TA-33 tri-bander and an 80/40 Bazooka antenna.



We encourage anyone interested in seeing a nationally ranked, 4-time #1 in class station in operation, plus the chance to actually add some contacts to the score on VHF or GOTA, to come by and check it out!

Want more? Come and help! Dates are Sat & Sun, June 25 & 26.

For info/questions of any sort: [k1py@frontiernet.net](mailto:k1py@frontiernet.net)

## XRX AMATEUR RADIO CLUB

The next meeting of the XRX Amateur Radio Club will be at 6PM on Thursday June 9 at the Webster Recreation Association. This month's meeting will focus on Field Day plans and preparation. Details at <http://xarc.us>

## SQUAW ISLAND AMATEUR RADIO CLUB, SIARC

The Squaw Island Amateur Radio Club (SIARC) meets every second Wednesday of the month at 7:30PM at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have License Exam Testing every other month which begins at 6:30PM. The June meeting will be on Wednesday, June 8th.

73's Steve Benton VP SIARC WB2VMR

## AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER

### COMMUNITY AMATEUR RADIO CLUB, CARC

We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7pm. Each meeting has a brief training/refresher period with upcoming topics including: formal traffic protocol, digital traffic handling, and APRS. Our last testing session was successful beyond our wildest dreams and now over 90% of the club members are Extra class operators. Please join us on our directed, emergency communications testing net every Sunday evening at 9pm - 0100 UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net, Thursday at 8:30pm on 147.285+. We'd love to hear you check-in! Take a look at the club website for more info: [www.k2srv.org](http://www.k2srv.org)

### DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP members continue to experiment with leading edge digital communications modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and public [DSTAR hotspots](#) (using the dvrrptr board), Yaesu fusion systems on non-club repeaters and DMR. The last mode is being enjoyed locally through a [DV-Mega-Raspberry PI](#) combination. DCAP meets for breakfast at 7am nearly every Saturday morning at [Rikki's Family Restaurant](#) in Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715MHz with a PL of 110.9 Hz.

## INTERLOCK ROCHESTER - K2HAX - ROCHESTER'S HACKERSPACE

Here's some of our events for the month of May:

\* Tuesday, May 3, 7pm: Monthly Meeting & Member Presentations, open to the public.

\* Friday, May 6, 5:30pm: Cryptoparty! - <http://www.rochester2600.com/pages/cryptoparty.html>

\* Friday, May 6, 8pm: Rochester 2600 Meeting - <http://www.rochester2600.com/>

\* Friday, May 13, 7pm: Software-Defined Radio (SDR) Meetup - <http://www.meetup.com/Interlock-Rochester-Hackerspace/events/fvggklyvhbrb/>

\* Saturday, May 21, 12pm to 4pm: Linux Workshop - <http://www.meetup.com/Interlock-Rochester-Hackerspace/events/drghfjyvhbcc/>

\* Saturday, May 28, 2pm: AdaSpace Hack Saturday: Chameleon Scarf - <http://www.meetup.com/AdaSpace/events/228220073/>

Interlock is open most every Tuesday night at 7pm. We're in the Hungerford Building (1115 East Main Street, Rochester NY), just north of Village Gate. Come to Door #7 (next to Comics Etc) and buzz Suite 200.

Visit our website at [interlockroc.org](http://interlockroc.org) and contact [info@interlockroc.org](mailto:info@interlockroc.org) with any questions, or find us in #interlock on Freenode IRC.

## Genesee Valley Amateur Radio Association

Upcoming Events:

June 25th & 26th - Field Day Event. Location to be announced.

This Spring our Presentations at our meetings have been involving Digital Radios; D-Star, Fusion, DMR, P25...

# HAMFESTS

## RAGS 2016 Hamfest

Sunday July 10, 2016  
American Legion Post 787  
5575 Legionaire Drive  
Cicero, NY

<http://www.ragsclub.org>

## Ithaca Hamfest

August 6, 2016  
Trumansburg, NY

<http://tcara-ny.org/hamfest/>

## KLARA Hamfest & Campout

August 8, 2016  
Hornell, NY

<http://klara.us>



# THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

## THE RADIO AMATEUR IS:

<b>CONSIDERATE</b>	Never knowingly operating in such a way as to lessen the pleasure of others.
<b>LOYAL</b>	Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
<b>PROGRESSIVE</b>	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
<b>FRIENDLY</b>	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
<b>BALANCED</b>	Radio is an avocation, never interfering with duties owed to family, job, school or community.
<b>PATRIOTIC</b>	With station and skill always ready for service to country and community.

## VISIT THE RARA WEBSITE!

Did you know that your club's website ([www.rochesterham.org](http://www.rochesterham.org)) offers these features and more?

- Photos of meetings & events (you might be in there!)
- Info on upcoming meetings/programs
- Rochester Hamfest information!
- Online membership & renewal
- Track and redeem your Reward Points
- Public service info & sign-up
- VE testing info
- Back issues of the RAG in PDF
- Officer contact
- List of past presidents
- Online membership directory
- Order RARA logo products
- Useful Internet links
- Ham Radio 101 – tons of tutorial info, plus net & repeater listings





# RARA MARKETPLACE

Your commercial ad could be here! The RARA RAG can help spread the word on your business at very reasonable rates.

Contact us for details at [editor@rochesterham.org](mailto:editor@rochesterham.org).



## PROMOTE YOUR BUSINESS WITH RAG ADVERTISING

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Business Card	- 2 x 3.5	\$140
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	- 8.6 x 3.5	\$600

The above prices are **per year** - not per month as is typical in other publications.

Your advertisement will be seen by amateurs in Rochester, Monroe County, New York State, the United States and even the rest of the world. RAG circulation is approx. 8,000.

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For more information: [Editor@RochesterHam.org](mailto:Editor@RochesterHam.org)

# RARA OFFICERS

## OFFICERS

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## DEPARTMENT HEADS

<b>Raffle Administrators</b>	Jay Hamill, KC2TCM Sabrina Hamill, WD2STK	
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<b>Club Station Trustee</b>	Jim DiTucci, N2IXD	<a href="mailto:n2ixd@arrl.net">n2ixd@arrl.net</a>
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<b>Webmaster</b>	Frank Schramm, WB2PYD	<a href="mailto:wb2pyd@gmail.com">wb2pyd@gmail.com</a>

## JULY RAG DEADLINE

**JUNE 15, 2016**



**RARA meets at 7PM on the  
first Friday of each month;  
come join us at:**

**Seneca Waterways Council, BSA Headquarters  
2320 Brighton Henrietta Town Line Rd  
Rochester, New York 14623**

**[Get Directions](#)**

**[Rochester Area Repeater Listing](#)**

## ROCHESTER AREA RADIO CLUB CONTACTS

**Antique Wireless Association (AWA)**  
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**Community Amateur Radio Club (CARC)**  
Joe Gangi, AC2NB: [ac2nb.carc@gmail.com](mailto:ac2nb.carc@gmail.com)

**Digital Communications Association of Perinton (DCAP)**  
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**Drumlins Amateur Radio Club Ltd. (DARC)**  
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**Fisherman's Net Amateur Radio Club**  
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